VOLUME 45 • CONTENTS

No 1 JULY 1999

Page

Leading article

1 Microsatellite instability *I M Frayling*

Commentaries

5 A key cytokine unlocks the door *H Shirin, S F Moss*

6 Glutamine in parenteral nutrition: more food for thought *M Elia*

7 Sex and drugs and HCV? *W Rosenberg*

8 Cryoglobulinaemia in HCV infection: coming in from the cold *O M Crosbie, G J M Alexander*

9 ERCP training: for the few, not for all *J Baillie*

Science @lert

11 The gut as target organ for oral immunovaccination with allergen DNA: new hope for patients with anaphylactic reactions to food? *S C Bischoff*

Clinical @lert

13 Budesonide led to a greater remission rate and fewer severe adverse events than did mesalamine in Crohn's disease *Commentary by P Rutgeerts*

Helicobacter pylori

15 What makes the dyspeptic patient feel ill? A cross sectional survey of functional health status, *Helicobacter pylori* infection, and psychological distress in dyspeptic patients in general practice *A O Quartero, M W M Post, M E Numans, R A de Melker, N J de Wit*

20 Antibodies to human gastric epithelial cells and heat shock protein 60 in *Helicobacter pylori* positive mucosa associated lymphoid tissue lymphoma *Y Kawahara, K Yokota, M Mizuno, N Yunoki, T Uesu, H Okada, K Kobayashi, Y Hirai, K Oguma, T Tsuji*

24 Regulation of tumour necrosis factor (TNF) induced apoptosis by soluble TNF receptors in *Helicobacter pylori* infection *J Shibata, H Goto, T Arisawa, Y Niwa, T Hayakawa, A Nakayama, N Mori*

Colorectal cancer

32 Hereditary colorectal cancer in the general population: from cancer registration to molecular diagnosis *M Ponz de Leon, M Pedroni, P Benatti, A Percesepe, C Di Gregorio, M Foroni, G Rossi, M Genuardi, G Neri, F Leonardi, A Viel, E Capozzi, M Boiocchi, L Roncucci*

39 Survival after rectal cancer: differences between hospital catchment areas. A nationwide study in Sweden *P Blomqvist, A Ekbom, O Nyrén, U B Krusemo, R Bergström, H-O Adami*

45 Human right and left colon differ in epithelial cell apoptosis and in expression of Bak, a pro-apoptotic Bcl-2 homologue *L U Liu, P R Holt, V Krivosheyev, S F Moss*

51 Induction of retinoic acid receptor β mediates growth inhibition in retinoid resistant human colon carcinoma cells *B Nicke, E-O Riecken, S Rosewicz*

Motility

58 Laterality effects of human pudendal nerve stimulation on corticoanal pathways: evidence for functional asymmetry *S Hamdy, P Enck, Q Aziz, S Uengoergil, A Hobson, D G Thompson*

64 Laser Doppler measurement of rectal mucosal blood flow *A V Emmanuel, M A Kamm*

Immunology

70 Small intestinal transit, absorption, and permeability in patients with AIDS with and without diarrhoea *D Sharpstone, P Neild, R Crane, C Taylor, C Hodgson, R Sherwood, B Gazzard, I Bjarnason*

77 Gastric pathology in patients with common variable immunodeficiency *A Zullo, A Romiti, V Rinaldi, A Vecchione, S Tomao, F Aiuti, L Frati, G Luzi*

Nutrition

82 A double blind, randomised, controlled trial of glutamine supplementation in parenteral nutrition *J Powell-Tuck, C P Jamieson, G E A Bettany, O Obeid, H V Fawcett, C Archer, D L Murphy*

89 *Saccharomyces boulardii* upgrades cellular adaptation after proximal enterectomy in rats *J-P Buts, N De Keyser, S Marandi, D Hermans, E M Sokal, Y-H E Chae, L Lambotte, H Chanteux, P M Tulkens*

Pancreas

97 A randomised, double blind, multicentre trial of octreotide in moderate to severe acute pancreatitis *W Uhl, M W Büchler, P Malfertheiner, H G Beger, G Adler, W Gaus, and the German Pancreatitis Study Group*

105 Induction of TFF1 gene expression in pancreas overexpressing transforming growth factor α *M P A Ebert, J Hoffmann, C Haeckel, K Rutkowski, R M Schmid, M Wagner, G Adler, H U Schulz, A Roessner, W Hoffmann, P Malfertheiner*

Liver disease

112 Epidemiological and virological analysis of couples infected with hepatitis C virus *H Zylberberg, V Thiers, D Lagorce, G Squadrito, F Leone, P Berthelot, C Bréchot, S Pol*

117 Relation between severity of liver disease and renal oxygen consumption in patients with cirrhosis *A Gadano, R Moreau, J Heller, C Chagneau, F Vachiéry, C Trombino, A Elman, C Denié, D Valla, D Lebrec*

122 Response to interferon α treatment and disappearance of cryoglobulinaemia in patients infected by hepatitis C virus *P Cresta, L Musset, P Cacoub, L Frangeul, D Vitour, T Poynard, P Opolon, D-T Nguyen, F Golliot, J-C Piette, J-M Huraux, F Lunel*

129 A prospective study of the causes of notably raised aspartate aminotransferase of liver origin *M W Whitehead, N D Hawkes, I Hainsworth, J G C Kingham*

134 All-*trans* and 9-*cis* retinoic acid alter rat hepatic stellate cell phenotype differentially *K Hellemans, I Grinko, K Rombouts, D Schuppan, A Geerts*

Case report

143 Intestinal ganglioneuromatosis and multiple endocrine neoplasia type 2B: implications for treatment *V V Smith, C Eng, P J Milla*

Gut file

147 Small, depressed lesions of the large bowel: a normal finding at endoscopy *J P Martin, B P Saunders, J E Painter*

Review
148 Molecules controlling lymphocyte migration to the gut *M Salmi, S Jalkanen*

Occasional viewpoint
154 Structured training and assessment in ERCP has become essential for the Calman era *A C B Wicks, G S M Robetson, P S Veitch*
157 **Book reviews Notes Correction**

No 2 AUGUST 1999 Page

Leading article
159 Hepatitis C and liver transplantation *M Berenguer, T L Wright*

Commentaries
164 *Helicobacter pylori* and dyspepsia: trick or treat? *R Jones*
165 The pill: safe sex and Crohn's disease? *E M Alstead*
166 Gall bladder and bowel: the links multiply *K W Heaton*
167 Cyclosporin and chronic pancreatitis: a supermodel? *M L Steer*
168 HBV + HCV = HCC? *M E Cramp*

Science @lert
170 Nuclear factor κB in liver disease *N J Gallagher, L S Young*

Oesophagus and stomach
172 Endoscopic assessment of oesophagitis: clinical and functional correlates and further validation of the Los Angeles classification *L R Lundell, J Dent, J R Bennett, A L Blum, D Armstrong, J P Galmiche, F Johnson, M Hongo, J E Richter, S J Spechler, G N J Tytgat, L Wallin*
181 Corpus gastritis is protective against reflux oesophagitis *H B El-Serag, A Sonnenberg, M M Jamal, J M Inadomi, L A Crooks, R M Feddersen*
186 A prospective randomised trial of a "test and treat" policy versus endoscopy based management in young *Helicobacter pylori* positive patients with ulcer-like dyspepsia, referred to a hospital clinic *A Heaney, J S A Collins, R G P Watson, R J McFarland, K B Bamford, T C K Tham*

Inflammation and inflammatory bowel disease
191 Synergistic effects of interferon γ and tumour necrosis factor α on T84 cell function *S M Fish, R Proujansky, W W Reenstra*
199 Reduced oxidative and nitrosative damage in murine experimental colitis in the absence of inducible nitric oxide synthase *B Zingarelli, C Szabó, A L Salzman*
210 Strictures in Crohn's disease are characterised by an accumulation of mast cells colocalised with laminin but not with fibronectin or vitronectin *C M Gelbmann, S Mestermann, V Gross, M Köllinger, J Schölmerich, W Falk*
218 Oral contraceptive use and the clinical course of Crohn's disease: a prospective cohort study *J Cosnes, F Carbonnel, F Carrat, L Beaugerie, J-P Gendre*

Small intestine
223 Gut origin of sepsis: a prospective study investigating associations between bacterial translocation, gastric microflora, and septic morbidity *J MacFie, C O'Boyle, C J Mitchell, P M Buckley, D Johnstone, P Sudworth*
229 Intestinal crypt cell apoptosis in murine acute graft versus host disease is mediated by tumour necrosis factor α and not by the FasL-Fas interaction: effect of pentoxifylline on the development of mucosal atrophy *E Stüber, A Büschenfeld, A von Freier, T Arendt, U R Fölsch*
236 Structural, neuronal, and functional adaptive changes in atrophic rat ileum *K M Ekelund, E Ekblad*

Neoplasia
246 Interleukin 1 and interleukin 1β converting enzyme (caspase 1) expression in the human colonic epithelial barrier. Caspase 1 downregulation in colon cancer *A Jarry, G Vallette, E Cassagnau, A Moreau, C Bou-Hanna, P Lemarre, E Letessier, J-C Le Neel, J-P Galmiche, C L Laboisse*
252 Contribution of matrilysin (MMP-7) to the metastatic pathway of human colorectal cancers *Y Adachi, H Yamamoto, F Itoh, Y Hinoda, Y Okada, K Imai*

Histopathology
259 Polymerase chain reaction based human leucocyte antigen genotyping for the investigation of suspected gastrointestinal biopsy contamination *A C Bateman, S J Turner, J M Theaker, B F Warren, W M Howell*

Motility
264 Gall bladder emptying in severe idiopathic constipation *C Penning, H A J Gielkens, J B V M Delemarre, C B H W Lamers, A A M Masclee*

Pancreas
269 Myofibroblast proliferation, fibrosis, and defective pancreatic repair induced by cyclosporin in rats *E Vaquero, X Molero, X Tian, A Salas, J-R Malagelada*

Liver disease
278 Iron overload in urban Africans in the 1990s *I T Gangaidzo, V M Moyo, T Saungweme, H Khumalo, R M Charakupa, Z A R Gomo, M Loyevsky, R Stearman, T La Vaute, E G Enquist, T A Rouault, V R Gordeuk*
284 High prevalence of anti-hepatitis B virus serological markers in patients with hepatitis C virus related chronic liver disease in Japan *H Marusawa, Y Osaki, T Kimura, K Ito, Y Yamashita, T Eguchi, M Kudo, Y Yamamoto, H Kojima, H Seno, F Moriyasu, T Chiba*
289 Familial occurrence of nodular regenerative hyperplasia of the liver: a report on three families *J Dumortier, O Boillot, M Chevallier, F Berger, P Potier, P-J Valette, P Paliard, J-Y Scoazec*
295 Development of a disease specific questionnaire to measure health related quality of life in patients with chronic liver disease *Z M Younossi, G Guyatt, M Kiwi, N Boparai, D King*
301 Spur cell anaemia and hepatic iron stores in patients with alcoholic liver disease undergoing orthotopic liver transplantation *A Pascoe, P Kerlin, C Steadman, A Clouston, D Jones, L Powell, E Jazwinska, S Lynch, R Strong*

Case report
306 Selection of hepatitis B surface "escape" mutants during passive immune prophylaxis following liver transplantation: potential impact of genetic changes on polymerase protein function *P L Shields, A Owsianka, W F Carman, E Boxall, S G Hubscher, J Shaw, K O'Donnell, E Elias, D J Mutimer*

Gut file
310 A woman who bled after a decade of dyspnoea *N J Robertson, M E F Smith, A J Sherwood, S P L Travis*

Review
311 The role of infection in acute pancreatitis *S W Schmid, W Uhl, H Friess, M W Büchler, P Malfertheiner*

No 3 SEPTEMBER 1999 Page

Leading article
317 Hereditary pancreatitis: new insights into acute and chronic pancreatitis *D C Whitcomb*

Commentaries
323 Host, heredity and helicobacter *J G Nedrud, S J Czinn*
324 Glucocorticoid unresponsiveness in severe ulcerative colitis *C J Corrigan*
325 Mismatch repair deficit: a gain for diagnostic histopathology *I C Talbot*
326 Liver transplantation and alcoholics: is the glass half full or half empty? *M R Lucey, R M Weinrieb*
327 Transplantation in HCV: whither immunosuppression *T Bizollon, C Trepo*
328 NOSA in HCV infection: markers or makers of disease? *D Vergani*
329 Encephalopathy without cirrhosis: hunt the shunt *E R Howard*
331 URSO in obstetric cholestasis: not a bear market *E Elias*

Science @lert
333 Mixing and moving in the gut *J D Wood*

Stomach
335 A genetic basis for atrophy: dominant non-responsiveness and helicobacter induced gastritis in F_1 hybrid mice *P Sutton, J Wilson, R Genta, D Torrey, A Savinainen, J Pappo, A Lee*
341 Evaluation of laser Doppler flowmetry for the study of benign and malignant gastric blood flow in vivo *M K Schilling, C Redaelli, H Friess, B Blum, C Signer, C A Maurer, M W Büchler*
346 Cholinergic effects on human gastric motility *H P Parkman, D M Trate, L C Knight, K L Brown, A H Maurer, R S Fisher*

Small intestine
355 Nitric oxide synthesis in patients with infective gastroenteritis *P Forte, R S Dykhuizen, E Milne, A McKenzie, C C Smith, N Benjamin*
362 High prevalence of NSAID enteropathy as shown by a simple faecal test *J A Tibble, G Sigthorsson, R Foster, D Scott, M K Fagerhol, A Roseth, I Bjarnason*

Inflammation and inflammatory bowel disease
367 Potentiation of cytokine induced iNOS expression in the human intestinal epithelial cell line, DLD-1, by cyclic AMP *M Cavicchi, B J R Whittle*
375 Lymphocytic colitis: a distinct clinical entity? A clinicopathological confrontation of lymphocytic and collagenous colitis *F Baert, K Wouters, G D'Haens, P Hoang, S Naegels, F D'Heygere, J Holvoet, E Louis, M Devos, K Geboes for the Belgian IBD Research Group*
382 Predicting therapeutic outcome in severe ulcerative colitis by measuring in vitro steroid sensitivity of proliferating peripheral blood lymphocytes *S D Hearing, M Norman, C S J Probert, N Haslam, C M Dayan*
389 Increased prevalence of methylenetetrahydrofolate reductase C677T variant in patients with inflammatory bowel disease, and its clinical implications *N Mahmud, A Molloy, J McPartlin, R Corbally, A S Whitehead, J M Scott, D G Weir*
395 HLA-DR and -DQ phenotypes in inflammatory bowel disease: a meta-analysis *P C F Stokkers, P H Reitsma, G N J Tytgat, S J H van Deventer*

Pancreas
402 Long term follow up of patients with chronic pancreatitis and pancreatic stones treated with extracorporeal shock wave lithotripsy *H E Adamek, R Jakobs, A Buttmann, M U Adamek, A R J Schneider, J F Riemann*

Cancer
406 Screening *SMAD*1, *SMAD*2, *SMAD*3, and *SMAD*5 for germline mutations in juvenile polyposis syndrome *S Bevan, K Woodford-Richens, P Rozen, C Eng, J Young, M Dunlop, K Neale, R Phillips, D Markie, M Rodriguez-Bigas, B Leggett, E Sheridan, S Hodgson, T Iwama, D Eccles, W Bodmer, R Houlston, I Tomlinson*
409 Choice of management strategy for colorectal cancer based on a diagnostic immunohistochemical test for defective mismatch repair *L Cawkwell, S Gray, H Murgatroyd, F Sutherland, L Haine, M Longfellow, S O'Loughlin, D Cross, O Kronborg, C Fenger, N Mapstone, M Dixon, P Quirke*

Liver disease
416 Serum concentrations and peripheral secretion of the beta chemokines monocyte chemoattractant protein 1 and macrophage inflammatory protein 1α in alcoholic liver disease *N C Fisher, D A H Neil, A Williams, D H Adams*
421 Alcoholic cirrhosis is a good indication for liver transplantation, even for cases of recidivism *G-P Pageaux, J Michel, V Coste, P Perney, P Possoz, P-F Perrigault, F Navarro, J-M Fabre, J Domergue, P Blanc, D Larrey*
427 Longitudinal variation in hepatitis C virus (HCV) viraemia and early course of HCV infection after liver transplantation for HCV cirrhosis: the role of different immunosuppressive regimens *G V Papatheodoridis, S G R G Barton, D Andrew, G Clewley, S Davies, A P Dhillon, G Dusheiko, B Davidson, K Rolles, A K Burroughs*
435 Prevalence of non-organ-specific autoantibodies and chronic liver disease in the general population: a nested case-control study of the Dionysos cohort *M Lenzi, S Bellentani, G Saccoccio, P Muratori, F Masutti, L Muratori, F Cassani, F B Bianchi, C Tiribelli*
442 Hepatic manifestations of familial patent ductus venosus in adults *S Jacob, G Farr, D De Vun, H Takiff, A Mason*
446 Bile acid patterns in meconium are influenced by cholestasis of pregnancy and not altered by ursodeoxycholic acid treatment *C M P Rodrigues, J J G Marin, D Brites*
453 The effects of short term lipid infusion on plasma and hepatic bile lipids in humans *R Pakula, F M Konikoff, A M Moser, F Greif, A Tietz, T Gilat, M Rubin*

Case report
459 Superior mesenteric vein stenosis complicating Crohn's disease *R S Hodgson, J E Jackson, S D Taylor-Robinson, J R F Walters*

Gut file
463 Idiopathic giant oesophageal ulcer in an immunocompetent patient. The efficacy of thalidomide treatment *S Ollivier, J Bonnet, M Lemann, J-C Coffin, R Modigliani, R Jian, P Bertheau, J-F Flejou*

Review
465 Naturally acquired human immune responses against *Helicobacter pylori* and implications for vaccine development *Y Zevering, L Jacob, T F Meyer*

No 4 OCTOBER 1999

Page

Leading article

475 Long term outcome of liver transplantation for viral hepatitis: is there a need to re-evaluate patient selection? *D Mutimer*

Commentaries

477 Allelic variation in *Helicobacter pylori*: progress but no panacea *M J Blaser*

478 Short bowel, short answer? *J Nightingale*

479 Pseudo-obstruction in children: transplant or wait? *J de Ville de Goyet*

480 Screening for colorectal cancer: the heart of the matter *W S Atkin*

481 HCV in hepatic failure: West and East do not meet *G K K Lau, R Williams*

Science @lert

483 TNF biosynthesis in gut associated immunopathologies *F Balkwill*

Oesophagus

484 Inflammation of the gastro-oesophageal junction (carditis) in patients with symptomatic gastro-oesophageal reflux disease: a prospective study *T Lembo, A F Ippoliti, C Ramers, W M Weinstein*

489 Endoscopic regression of Barrett's oesophagus during omeprazole treatment; a randomised double blind study *F T M Peters, S Ganesh, E J Kuipers, W J Sluiter, E C Klinkenberg-Knol, C B H W Lamers, J H Kleibeuker*

Helicobacter pylori

495 Effects of *Helicobacter pylori* eradication on the natural history of lymphocytic gastritis *M Hayat, D S Arora, M F Dixon, B Clark, S O'Mahony*

499 Heterogeneity in the *Helicobacter pylori vacA* and *cagA* genes: association with gastroduodenal disease in South Africa? *M Kidd, A J Lastovica, J C Atherton, J A Louw*

503 Simultaneous colonisation of *Helicobacter pylori* with and without mutations in the 23S rRNA gene in patients with no history of clarithromycin exposure *M Matsuoka, Y Yoshida, K Hayakawa, S Fukuchi, K Sugano*

Epithelial proliferation and repair

508 Effect of mechanical strain on gastric cellular migration and proliferation during mucosal healing: role of Rho dependent and Rac dependent cytoskeletal reorganisation *T Osada, S Watanabe, H Tanaka, M Hirose, A Miyazaki, N Sato*

516 Metabolism of oral trefoil factor 2 (TFF2) and the effect of oral and parenteral TFF2 on gastric and duodenal ulcer healing in the rat *S S Poulsen, J Thulesen, L Christensen, E Nexø, L Thim*

Inflammation and inflammatory bowel disease

523 Indomethacin induced gastropathy in CD18, intercellular adhesion molecule 1, or P-selectin deficient mice *Z Morise, D N Granger, J W Fuseler, D C Anderson, M B Grisham*

529 Expression of cyclooxygenase 1 and 2 by human gastric endothelial cells *M A Hull, J L Thomson, C J Hawkey*

537 Endoscopic mucosal biopsies are useful in distinguishing granulomatous colitis due to Crohn's disease from tuberculosis *A B Pulimood, B S Ramakrishna, G Kurian, S Peter, S Patra, V I Mathan, M M Mathan*

542 Restorative proctocolectomy for distal ulcerative colitis *M Brunel, C Penna, E Tiret, P Balladur, R Parc*

546 Mesenteric blood flow is related to disease activity and risk of relapse in ulcerative colitis: a prospective follow up study *D Ludwig, S Wiener, A Brüning, K Schwarting, G Jantschek, K Fellermann, M Stahl, E F StangeSmall intestine*

553 Characterisation of immune mediator release during the immediate response to segmental mucosal challenge in the jejunum of patients with food allergy *J Santos, C Bayarri, E Saperas, C Nogueiras, M Antolín, M Mourelle, A Cadahia, J-R Malagelada*

559 Impaired meal stimulated glucagon-like peptide 2 response in ileal resected short bowel patients with intestinal failure *P B Jeppesen, B Hartmann, B S Hansen, J Thulesen, J J Holst, P B Mortensen*

564 The sigma ligand, igmesine, inhibits cholera toxin and *Escherichia coli* enterotoxin induced jejunal secretion in the rat *J L Turvill, P Kasapidis, M J G Farthing*

570 Intestinal transplantation in children with chronic intestinal pseudo-obstruction *L Sigurdsson, J Reyes, S A Kocoshis, G Mazariegos, K M Abu-Elmagd, J Bueno, C Di Lorenzo*

Gastrointestinal motility

575 Local regulation of postprandial motor responses in ileal pouches *A Mularczyk, E Contessini-Avesani, B Cesana, P A Bianchi, G Basilisco*

Gastrointestinal bleeding

581 Comparison of three dimensional magnetic resonance imaging in conjunction with a blood pool contrast agent and nuclear scintigraphy for the detection of experimentally induced gastrointestinal bleeding *P R Hilfiker, D Weishaupt, G M Kacl, F H Hetzer, M D Griff, S G Ruehm, J F Debatin*

Colorectal cancer

588 The risks of screening: data from the Nottingham randomised controlled trial of faecal occult blood screening for colorectal cancer *M H E Robinson, J D Hardcastle, S M Moss, S S Amar, J O Chamberlain, N C M Armitage, J H Scholefield, C M Mangham*

593 Increased activation of lymphocytes infiltrating primary colorectal cancers following immunisation with the anti-idiotypic monoclonal antibody 105AD7 *C A Maxwell-Armstrong, L G Durrant, R A Robins, A M Galvin, J H Scholefield, J D Hardcastle*

599 The utility of endoscopic ultrasonography and endoscopy in the endoscopic mucosal resection of early gastric cancer *S Ohashi, K Segawa, S Okamura, M Mitake, H Urano, M Shimodaira, T Takeda, S Kanamori, T Naito, K Takeda, B Itoh, H Goto, Y Niwa, T Hayakawa*

Pancreas

605 Group II and IV phospholipase A_2 are produced in human pancreatic cancer cells and influence prognosis *M Kashiwagi, H Friess, W Uhl, P Berberat, M Abou-Shady, M Martignoni, S E Anghelacopoulos, A Zimmermann, M W Büchler*

Liver disease

613 Fulminant hepatic failure in acute hepatitis C: increased risk in chronic carriers of hepatitis B virus *C M Chu, C T Yeh, Y F Liaw*

618 Variceal pressure is a strong predictor of variceal haemorrhage in patients with cirrhosis as well as in patients with non-cirrhotic portal hypertension *E A El Atti, F Nevens, K Bogaerts, G Verbeke, J Fevery*

Case report

622 Recurrence of hepatocellular carcinoma as a mixed hepatoblastoma after liver transplantation *J Dumortier, T Bizollon, M Chevallier, C Ducerf, J Baulieux, J Y Scoazec, C Trepo*

Gut file

626 Subcutaneous seeding of hepatocellular carcinoma after percutaneous needle biopsy *S N Schotman, R A de Man, J Stoker, P E Zondervan, J N M IJzermans*

Occasional viewpoint

628 Liver biopsy under ultrasound control: implications for training in the Calman era *S Shah, J F Mayberry, A C B Wicks, Y Rees, R J Playford*

630 **Letters to the editor Book review Notes Corrections**

No 5 NOVEMBER 1999 Page

Leading article

633 Vaccines against gut pathogens *P Mastroeni, F Bowe, R Cahill, C Simmons, G Dougan*

Commentaries

636 COX-2 in large bowel cancer: a one-sided story *R N DuBois*

637 Are dilating bile ducts a cause for concern? *M L Wilkinson*

638 T-cell lymphoma: the real thing *P C Isaacson*

639 Renal sodium handling in pre-ascitic cirrhosis *J Clària, J Rodés*

Science @lert

640 Dendritic cell subsets: the ultimate T cell differentiation decision makers? *J L Viney*

Clinical @lert

642 Treatment of fistulas in Crohn's disease with infliximab *R Löfberg*

Oesophagus and stomach

644 Complete and incomplete intestinal metaplasia at the oesophagogastric junction: prevalences and associations with endoscopic erosive oesophagitis and gastritis *M Voutilainen, M Färkkilä, M Juhola, J-P Mecklin, P Sipponen, and The Central Finland Endoscopy Study Group*

649 Familial hiatal hernia in a large five generation family confirming true autosomal dominant inheritance *I J Carré, B T Johnston, P S Thomas, P J Morrison*

Small intestine

653 Morphological and functional restoration of parietal cells in *Helicobacter pylori* associated enlarged fold gastritis after eradication *Y Murayama, J Miyagawa, Y Shinomura, S Kanayama, Y Yasunaga, H Nishibayashi, K Yamamori, Y Higashimoto, Y Matsuzawa*

662 The clinicopathological features of extensive small intestinal CD4 T cell infiltration *F Carbonnel, H d'Almagne, A Lavergne, C Matuchansky, J C Brouet, F Sigaux, L Beaugerie, J Nemeth, B Coffin, J Cosnes, J P Gendre, J C Rambaud*

668 Relative power of linkage and transmission disequilibrium test strategies to detect non-HLA linked coeliac disease susceptibility genes *S Bevan, S Popat, R S Houlston*

672 Diabetic intestinal growth adaptation and glucagon-like peptide 2 in the rat: effects of dietary fibre *J Thulesen, B Hartmann, C Nielsen, J J Holst, S S Poulsen*

679 Fast acting nervous regulation of immunoglobulin A secretion from isolated perfused porcine ileum *P T Schmidt, L Eriksen, M Loftager, T N Rasmussen, J J Holst*

Inflammation and inflammatory bowel disease

686 Villous, hypermucinous mucosa in long standing ulcerative colitis shows high frequency of K-*ras* mutations *S N Andersen, T Løvig, O P F Clausen, A Bakka, O Fausa, T O Rognum*

Cell specific effects of glucocorticoid treatment on the NF-κBp65/IκBα system in patients with Crohn's disease *K Thiele, A Bierhaus, F Autschbach, M Hofmann, W Stremmel, H Thiele, R Ziegler, P P Nawroth*

705 Dexamethasone inhibition of leucocyte adhesion to rat mesenteric postcapillary venules: role of intercellular adhesion molecule 1 and KC *A Tailor, A Tomlinson, A Salas, J Panés, D N Granger, R J Flower, M Perretti*

Gastrointestinal motility

713 Effect of different prokinetic agents and a novel enterokinetic agent on postoperative ileus in rats *B Y De Winter, G E Boeckxstaens, J G De Man, T G Moreels, J A J Schuurkes, T L Peeters, A G Herman, P A Pelckmans*

719 Topical diltiazem and bethanechol decrease anal sphincter pressure without side effects *E A Carapeti, M A Kamm, B K Evans, R K S Phillips*

Gastrointestinal cancer

723 Decreased and aberrant nuclear lamin expression in gastrointestinal tract neoplasms *S F Moss, V Krivosheyev, A de Souza, K Chin, H P Gaetz, N Chaudhary, H J Worman, P R Holt*

730 Differential expression of cyclooxygenase 2 in human colorectal cancer *J Dimberg, A Samuelsson, A Hugander, P Söderkvist*

Pancreas

733 Adjuvant treatment of severe acute pancreatitis with C1 esterase inhibitor concentrate after haematopoietic stem cell transplantation *D T Schneider, W Nürnberger, H Stannigel, H Bönig, U Göbel*

737 High proportion of mutant K-*ras* gene in pancreatic juice of patients with pancreatic cystic lesions *K Tateishi, M Tada, M Yamagata, H Isayama, Y Komatsu, T Kawabe, Y Shiratori, M Omata*

Biliary system

741 The preoperatively normal bile duct does not dilate after cholecystectomy: results of a five year study *A W Majeed, B Ross, A G Johnson*

744 Helical computed tomographic cholangiography versus endosonography for suspected bile duct stones: a prospective blinded study in non-jaundiced patients *M Polkowski, J Palucki, J Regula, A Tilszer, E Butruk*

Liver diaease

750 Renal distal tubular handling of sodium in central fluid volume homoeostasis in preascitic cirrhosis *G Sansoè, A Ferrari, E Baraldi, C N Castellana, M C De Santis, F Mancuti*

756 Cancer risk in primary biliary cirrhosis: a study in northern England *D Howel, J V Metcalf, J Gray, W L Newman, D E J Jones, O F W James*

761 Genomic heterogeneity in synchronous hepatocellular carcinomas *Y Sirivatanauksorn, V Sirivatanauksorn, S Bhattacharya, B R Davidson, A P Dhillon, A K Kakkar, R C N Williamson, N R Lemoine*

766 Regulatory peptide receptors in human hepatocellular carcinomas *J C Reubi, A Zimmermann, S Jonas, B Waser, P Neuhaus, U Läderach, B Wiedenmann*

Case reports

775 Loss of interstitial cells and a fibromuscular layer on the luminal side of the colonic circular muscle presenting as megacolon in an adult patient *M S Faussone-Pellegrini, P Fociani, R Buffa, G Basilisco*

780 Clonal chromosomal abnormalities in congenital bile duct dilatation (Caroli's disease) *L A Parada, M Hallén, I Hägerstrand, K-G Tranberg, B Johansson*

Gut file

783 Transplantation of haemochromatosis liver and intestine into a normal recipient *P C Adams, G Jeffrey, K Alanen, S Chakrabarti, R Preshaw, W Howson, D Grant*

Review

784 Gastric epithelial dysplasia *G Y Lauwers, R H Riddell*

No 6 DECEMBER 1999 Page

Leading article

791 The changing face of treatment for hiatus hernia and gastro-oesophageal reflux *D I Watson, P G Devitt, G G Jamieson*

Commentaries

793 Giving carditis back to the heart *R M Genta*

794 Colon cancer: the shape of things to come *J R Jass*

795 Cryptic messages in FAP *A Watson, R N DuBois*

796 Post-cholecystectomy diarrhoea: a running commentary *L J D O'Donnell*

Gastro-oesophageal reflux

798 Patterns of gastritis in patients with gastro-oesophageal reflux disease *D J Bowrey, G W B Clark, G T Williams*

Helicobacter pylori

804 Relation between clinical presentation, *Helicobacter pylori* density, interleukin 1β and 8 production, and *cagA* status *Y Yamaoka, T Kodama, M Kita, J Imanishi, K Kashima, D Y Graham*

Gastrointestinal cancer

812 A comparison of the therapeutic effectiveness of gastrin neutralisation in two human gastric cancer models: relation to endocrine and autocrine/paracrine gastrin mediated growth *S A Watson, T M Morris, A Varro, D Michaeli, A M Smith*

818 Clinicopathological differences between colonic and rectal carcinomas: are they based on the same mechanism of carcinogenesis? *K Konishi, T Fujii, N Boku, S Kato, I Koba, A Ohtsu, H Tajiri, A Ochiai, S Yoshida*

822 Rectal epithelial apoptosis in familial adenomatous polyposis patients treated with sulindac *J J Keller, G J A Offerhaus, M Polak, S N Goodman, M L Zahurak, L M Hylind, S R Hamilton, F M Giardiello*

829 Notable intrafamilial phenotypic variability in a kindred with familial adenomatous polyposis and an *APC* mutation in exon 9 *P Rozen, Z Samuel, R Shomrat, C Legum*

834 Flexible sigmoidoscopy or colonoscopy as a screening modality for colorectal adenomas in older age groups? Findings in a cohort of the normal population aged 63–72 years *E Thiis-Evensen, G S Hoff, J Sauar, B M Majak, M H Vatn*

840 Wheat bran affects the site of fermentation of resistant starch and luminal indexes related to colon cancer risk: a study in pigs *M J A P Govers, N J Gannon, F R Dunshea, P R Gibson, J G Muir*

Inflammation and inflammatory bowel disease

848 Analysis of the cellular basis of keratinocyte growth factor overexpression in inflammatory bowel disease *P W Finch, A L Cheng*

856 Expression of lymphocyte-endothelial receptor-ligand pairs, α4β7/MAdCAM-1 and OX40/OX40 ligand in the colon and jejunum of patients with inflammatory bowel disease *H S Souza, C C S Elia, J Spencer, T T MacDonald*

864 Role of inducible nitric oxide synthase in trinitrobenzene sulphonic acid induced colitis in mice *D-M McCafferty, M Miampamba, E Sihota, K A Sharkey, P Kubes*

874 Hydrogen peroxide enhanced ultrasound-fistulography in the assessment of enterocutaneous fistulas complicating Crohn's disease *G Maconi, F Parente, G Bianchi Porro*

Colonic permeability

879 Comparison of cattle and sheep colonic permeabilities to horseradish peroxidase and hamster scrapie prion protein in vitro *A T McKie, P S Zammit, R J Naftalin*

Biliary and pancreatic disease

889 Effect of cholecystectomy on bowel function: a prospective, controlled study *S D Hearing, L A Thomas, K W Heaton, L Hunt*

895 Serum interleukin 10 and interleukin 11 in patients with acute pancreatitis *C-C Chen, S-S Wang, R-H Lu, F-Y Chang, S-D Lee*

900 The predictive value of transabdominal ultrasonography in the diagnosis of biliary tract complications after orthotopic liver transplantation *S H Hussaini, M B Sheridan, M Davies*

Liver disease

904 A tungsten supplemented diet attenuates bacterial translocation in chronic portal hypertensive and cholestatic rats: role of xanthine dehydrogenase and xanthine oxidase *G Schimpl, M A Pabst, G Feierl, A Kuesz, H Özbey, S Takahashi, M E Höllwarth*

Review

911 Defensins and innate host defence of the gastrointestinal tract *C L Bevins, E Martin-Porter, T Ganz*

916 **Letters to the Editor**

917 **Referees**

921 **Volume 45: Author Index**

929 **Volume 45: Subject Index**

Volume 45: Contents